Name of Work :- Development of roads and drains at Maruthinagara 4th main and cross roads Basaveshwaranagara and Shivanahalli surrounding areas in ward no:01of Yelahanka division (Package no-7)

Quality Control Abstract

Job code:

Bill Number: First & Final Bill

Name of contractor: Sri K B Alankar

Sl No.	Description of Materials	Test	No of Units Tested	No of samples conducted	Test result	Remarks
1	Kerb Stone	Compressive Strength (IS 516-1959)	4	4		-
2	GSB	As per Morth	Per Batch	Per Batch	Satisfactory	-
3	WMM	As per Morth	Per Batch	Per Batch	Satisfactory	-
4	Fine Aggregates	IS: 383-1970	Per Batch	Per Batch	Satisfactory	-
5	Course Aggregates	As per Morth	Per Batch	Per Batch	Satisfactory	-
6	Steel TMT	IS: 1876:2008, IS 1608:2005,IS1599:1985	Per Batch	Per Batch	Satisfactory	-
7	Cement	IS: 12269-1987	Per Batch	Per Batch	Satisfactory	-
8	Bitumen	IS: 73-1992, IS: 2386(Part I to iV)-1963, MORTH	Per Batch	Per Batch	Satisfactory	-
9	M20 Concrete	Compressive Strength (IS 516-1959)	96	96	Satisfactory	-
10	M20 Coping Concrete	Compressive Strength (IS 516-1959)	48	48	Satisfactory	-
11	M30 Concrete	Compressive Strength (IS 516-1959)	60	60	Satisfactory	-
12	100mm Drain Slab (Core Cuting Method)	Core Compressive Strength (IS 516-1959 (Reaffirmed -Sp-24, 1983	2	2	Satisfactory	-
13	250mm Culvert Slab (Core Cuting Method)	Core Compressive Strength (IS 516-1959 (Reaffirmed -Sp-24, 1983	2	2	Satisfactory	-

CONSULTANCY * SHRIYA CONSTRUCTION AND

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SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-D/PMC/PKG 7/ M20 Coping

Date: 29/01/2021

1. Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work :- Development of roads and drains at Maruthinagara 4th main and cross roads Basaveshwaranagara and Shivanahalli surrounding areas in ward no:01of Yelahanka division (Package no-7)

Ref: Material Testing/PMC/20-21.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: Sri K B Alankar.

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm
Grade Of concrete: **M20**

Table 1.1

SL No	Location	Date of casting	Date of Testing	C/S Area mm2	Age	Load KN	Compressive Strength-N/mm2	Average
1.	Basaveshwaranagara	22/01/2021	29/02/1021	22500	7	390	17.33	18.15
2.		"	"	"	"	425	18.88	
3.		"	"	"	"	410	18.22	
4.		"	"	"	"	426	18.90	
5.		"	"	"	"	400	18.04	
6.		"	"	"	"	395	17.55	

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NO: YEL-D/PMC/PKG 7/ M20 Coping

Date: 19/02/2021

1. Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work :- Development of roads and drains at Maruthinagara 4th main and cross roads Basaveshwaranagara and Shivanahalli surrounding areas in ward no:01of Yelahanka division (Package no-7)

Ref: Material Testing/PMC/20-21.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: Sri K B Alankar.

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm
Grade Of concrete: **M20**

Table 1.1

SL No	Location	Date of casting	Date of Testing	C/S Area mm2	Age	Load KN	Compressive Strength-N/mm2	Average
1.	Basaveshwaranagara	22/01/2021	19/02/2021	22500	28	510	22.66	22.51
2.		"	"	"	"	545	24.22	
3.		"	"	"	"	490	21.77	
4.		"	"	"	"	505	22.40	
5.		"	"	"	"	531	23.60	
6.		"	"	"	"	482	21.40	

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NO: YEL-D/PMC/PKG 7/ M20 Coping

Date: 30/01/2021

1. Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work :- Development of roads and drains at Maruthinagara 4th main and cross roads Basaveshwaranagara and Shivanahalli surrounding areas in ward no:01of Yelahanka division (Package no-7)

Ref: Material Testing/PMC/20-21.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: Sri K B Alankar.

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm
Grade Of concrete: **M20**

Table 1.1

SL No	Location	Date of casting	Date of Testing	C/S Area mm2	Age	Load KN	Compressive Strength-N/mm2	Average
1.	7th, 8th, 2nd, 9th and 10th Cross Road Maruthi Nagara	23/01/2021	30/01/2021	22500	7	399	17.73	18.62
2.		"	"	"	"	418	18.57	
3.		"	"	"	"	427	18.97	
4.		"	"	"	"	461	20.48	
5.		"	"	"	"	410	18.22	
6.		"	"	"	"	400	17.77	

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NO: YEL-D/PMC/PKG 7/ M20 Coping

Date: 01/02/2021

1. Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work :- Development of roads and drains at Maruthinagara 4th main and cross roads Basaveshwaranagara and Shivanahalli surrounding areas in ward no:01of Yelahanka division (Package no-7)

Ref: Material Testing/PMC/20-21.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: Sri K B Alankar.

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm
Grade Of concrete: **M20**

Table1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strengt h N/mm2	Average Strength N/mm2
1	4th Cross, 2nd Main, 11th and 13th Cross Maruthi Nagara	25-01-2021	01-02-2021	8.11	7	405.00	18.00	16.55
2		"	"	8.27	"	365.00	16.22	
3		"	"	8.36	"	375.00	16.67	
4		"	"	8.29	"	348.00	15.47	
5		"	"	8.25	"	369.00	16.40	
6		"	"	8.14	"	372.00	16.53	

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NO: YEL-D/PMC/PKG 7/ M20 Coping

Date: 06/03/2021

1. Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work :- Development of roads and drains at Maruthinagara 4th main and cross roads Basaveshwaranagara and Shivanahalli surrounding areas in ward no:01of Yelahanka division (Package no-7)

Ref: Material Testing/PMC/20-21.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: Sri K B Alankar.

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm

Grade Of concrete: **M20**

Table1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strengt h N/mm2	Average Strength N/mm2
1	12th, 4th Cross, 1st main and 18th A Cross Maruthi Nagara	06-02-2021	06-03-2021	8.12	28	541.00	24.04	23.93
2		"	"	8.42	"	563.00	25.02	
3		"	"	8.28	"	524.00	23.29	
4		"	"	8.34	"	534.00	23.73	
5		"	"	8.22	"	564.00	25.07	
6		"	"	8.63	"	505.00	22.44	

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NO: YEL-D/PMC/PKG 7/ Cement

Date: 26/06/2021

1. Test report on cement Concrete Cubes:

Sub: Testing of 53 Grade Cement Sample Pertaining to IS: 12269-1987

Name of Work :- Development of roads and drains at Maruthinagara 4th main and cross roads Basaveshwaranagara and Shivanahalli surrounding areas in ward no:01of Yelahanka division (Package no-7)

Ref: Material Testing/PMC/20-21.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: Sri K B Alankar.

PHYSICAL TESTS ON CEMENT

Grade Of Cement: 53, OPC

Table 1.1

SL No	Name of Tests	Result	As Per IS Requirements (IS 8112-1989)
1.	Initial Setting Time	168 Min	Shall Not be less than 30 Min
2.	Final Setting Time	275 Min	Shall Not be More than 600 Min
3.	Fineness (by dry sieve on IS 90 micron Scieve)	1.98 %	Not to Exceed 10.0 %
4.	Soundness Test by Lee-Chatelier's Method	2.15 mm	Shall not be more than 10 mm
5.	Compressive strength (3 days on average of 3 results	29.56 N/Sqmm	Shall not be less than 27 N /Sq mm

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NO: YEL-D/PMC/PKG 7/ Cement

Date: 22/03/2021

1. Test report on cement Concrete Cubes:

Sub: Testing of 53 Grade Cement Sample Pertaining to IS: 12269-1987

Name of Work :- Development of roads and drains at Maruthinagara 4th main and cross roads Basaveshwaranagara and Shivanahalli surrounding areas in ward no:01of Yelahanka division (Package no-7)

Ref: Material Testing/PMC/20-21.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: Sri K B Alankar.

PHYSICAL TESTS ON CEMENT

Grade Of Cement: 53, OPC

Table 1.1

SL No	Name of Tests	Result	As Per IS Requirements (IS 8112-1989)
1.	Initial Setting Time	175 Min	Shall Not be less than 30 Min
2.	Final Setting Time	270 Min	Shall Not be More than 600 Min
3.	Fineness (by dry sieve on IS 90 micron Seieve)	1.97 %	Not to Exceed 10.0 %
4.	Soundness Test by Lee-Chatelier's Method	2.13 mm	Shall not be more than 10 mm
5.	Compressive strength (3 days on average of 3 results	29.55 N/Sqmm	Shall not be less than 27 N /Sq mm

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NO: YEL-D/PMC/PKG 7/Fine Agg

Date: 26/06/2021

1Test report on Fine Aggregares:

Sub: Testing of Fine Aggregates Sample Pertaining to IS: 383-1970 (Reaffirmed 2002).

Name of Work :- Development of roads and drains at Maruthinagara 4th main and cross roads Basaveshwaranagara and Shivanahalli surrounding areas in ward no:01of Yelahanka division (Package no-7)

Ref: Material Testing/PMC/20-21.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: Sri K B Alankar.

SIEVE ANALYSIS

Table 1.1

IS Sieve Size, mm	% Passing	IS: 383-1970 (Reaffirmed 2002). Percentage Passing			Result/ Remarks
		Zone I	Zone II	Zone III	
4.75mm	95.35	90-100	90-100	90-100	The Sample Conforms Grade II
2.36mm	82.65	60-95	75-100	85-100	
1.18 mm	86.25	30-70	55-90	75-100	
600 micr.	48.90	15.34	35-59	60-79	
300 mic.	23.40	5-20	8-30	12-40	
150 mic.	8.10	0-10	0-10	0-10	

SL No	Name of Tests	Sample	Result	Requirements as per IS: 383-1970 (Reaffirmed 2002).
1.	Bulking Of Sand	01	17.89%	NA
2.	Silt Content	-	.62%	Not more than 8%
3.	Specific Gravity	-	2.69	--

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Date: 22/03/2021

NO: YEL-D/PMC/PKG 7/Fine Agg

2. Test report on Fine Aggregares:

Sub: Testing of Fine Aggregates Sample Pertaining to IS: 383-1970 (Reaffirmed 2002).

Name of Work :- Development of roads and drains at Maruthinagara 4th main and cross roads Basaveshwaranagara and Shivanahalli surrounding areas in ward no:01of Yelahanka division (Package no-7)

Ref: Material Testing/PMC/20-21.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: Sri K B Alankar.

SIEVE ANALYSIS

Table 1.1

IS Sieve Size, mm	% Passing	IS: 383-1970 (Reaffirmed 2002). Percentage Passing			Result/ Remarks
		Zone I	Zone II	Zone III	
4.75mm	95.35	90-100	90-100	90-100	The Sample Conforms Grade II
2.36mm	82.65	60-95	75-100	85-100	
1.18 mm	86.25	30-70	55-90	75-100	
600 micr.	48.90	15.34	35-59	60-79	
300 mic.	23.40	5-20	8-30	12-40	
150 mic.	8.10	0-10	0-10	0-10	

SL No	Name of Tests	Sample	Result	Requirements as per IS: 383-1970 (Reaffirmed 2002).
1.	Bulking Of Sand	01	17.55%	NA
2.	Silt Content	-	.65%	Not more than 8%
3.	Specific Gravity	-	2.59	--

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Date: 22/03/2021

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)-1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**27.54%**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.65 %**	Not more than 35.0 %
3.	Water absorption, %	**0.42 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

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RESULTS OF PHYSICAL PROPERTIES OF TMT STEEL

SPECIMENS 8,10 AND 12MM DIA

Date of Testing : 01/03/2021

Grade Of Steel: **Fe 500.**
Technical Ref: IS.1786:2008, IS 1608:2005, IS 1599:1985(Reaffined-2006).

Table

SL No	Grade	Nominal Size of Rebar (Dia)	Mass (KG/meter)	Tensile Strength		
				20% Proof Stress / Yeild Stress (N/mm2)	Tensile Strength (N/mm2)	Elongation Percent on gauge Length
1.	Fe 500	8 mm	.33	545	550	13.60
2.	Fe 500	10mm	.65	557	573	14.56
3.	Fe 500	12mm	.84	572	581	14.90

Name of Work :- Development of roads and drains at Maruthinagara 4th main and cross roads Basaveshwaranagara and Shivanahalli surrounding areas in ward no:01of Yelahanka division (Package no-7)

Ref: Material Testing/PMC/20-21.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: Sri K B Alankar.

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NO: YEL/PMC/PKG 7/CUL. Slab

Date: 18/03/2021

Precast Culvert Slab 250mm Thick (Core Cutting Method) Test Report

Sub: Testing of Culvert Slab of 250mm Thick (Core Cutting Method) – Compressive Strength).

Name of Work :- Development of roads and drains at Maruthinagara 4th main and cross roads Basaveshwaranagara and Shivanahalli surrounding areas in ward no:01of Yelahanka division (Package no-7)

Ref: Material Testing/PMC/20-21.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: Sri K B Alankar.

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CORE

CORE SPECIMENS

Grade Of concrete: **M20**

Technical Ref:. IS.516-1959 (Reaffirmed), Sp 24-1983.

Table 1.1

Dia of Specimens: 100 mm =D

SL No	Height of core (H)mm	Weight of Core (KG)	Dencity of core (KG/m3)	H/D	Correction factor of H/D	Load KN	Compressive Strength-N/mm2	Correction Factor for dia (Strength x1.08)	Corrected Compressive Strength	Equavenent Cube Compressive Strength
1.	170	3.118	2335.2	1.70	.960	142.5	18.14	19.60	18.81	23.4
2.	173	3.231	2377.9	1.73	.960	138.6	17.65	19.06	18.30	22.2
3.	173	3.291	2394.4	1.75	.960	140.3	17.86	19.29	18.52	23.1

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NO: YEL-D/PMC/PKG 7/ GSB

Date: 13/02/2021

TEST REPORT ON GRANULAR SUBBASE MIX (GRADATION TEST)

Sub: To conduct tests on GSB (Grade-V) mix.
Name of Work :- Development of roads and drains at Maruthinagara 4th main and cross roads Basaveshwaranagara and Shivanahalli surrounding areas in ward no:01of Yelahanka division (Package no-7)

Ref: Material Testing/PMC/20-21.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.
Name of Agency/ contractor: Sri K B Alankar.

TEST RESULTS

1. **Gradation Test:**

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
75.00	100.00	100
53.00	94.65	80-100
26.50	81.35	55-90
9.50	52.15	35-65
4.75	47.80	25-50
2.36	16.25	10-20
0.85	7.90	2-10
0.425	4.10	0-5

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Date: 23/02/2021

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Water absorption, %	**0.42 %**	Not more than 2.0 %
2.	Liquid Limit, %	**18.56**	Not more than 25.0 %
3.	Plasticity Index, %	**NP**	Not more than 6.0 %
4.	Moisture Content, %	**6.75**	----------
5.	Aggregate Impact Value, %	**28.00**	Not more than 40.00 %

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BBMP/YD/PKG 7/BIT-STB

Date: 25-02-2021

1.TEST REPORT ON BITUMINOUS MIXES :

(STABILITY OF BITUMINOUS MIX)

Name of Work :- Development of roads and drains at Maruthinagara 4th main and cross roads Basaveshwaranagara and Shivanahalli surrounding areas in ward no:01of Yelahanka division (Package no-7)

Ref: Material Testing/PMC/20-21.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: Sri K B Alankar.

TEST RESULTS

Table 1: Properties of DBM (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Dense Bituminous Macadam, Grade-2 as per M.o.R.T&H (IV Revision)-2001 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1239**	900
2	Marshall Flow at 60°C, mm.	**3.20**	2.0 - 4.0

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BBMP/YD/ PKG 7/BIT

Date: 01-03-2021

1.TEST REPORT ON BITUMINOUS MIXES :

(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for DBM mix sample.

Sub: To determine the percentage of bitumen and gradation for DBM mix sample.

Name of Work :- Development of roads and drains at Maruthinagara 4th main and cross roads Basaveshwaranagara and Shivanahalli surrounding areas in ward no:01of Yelahanka division (Package no-7)

Ref: Material Testing/PMC/20-21.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: Sri K B Alankar.

TEST RESULTS

Table 1: Properties of DBM (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Dense Bituminous Macadam, Grade-2 as per M.o.R.T&H (IV Revision)-2001 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1255**	900
2	Marshall Flow at 60°C, mm.	**3.42**	2.0 - 4.0

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BBMP/YD/PKG 7/BIT-EX

Date: 08-03-2021

1.TEST REPORT ON BITUMINOUS MIXES :

(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for DBM mix sample.

Name of Work :- Development of roads and drains at Maruthinagara 4th main and cross roads Basaveshwaranagara and Shivanahalli surrounding areas in ward no:01of Yelahanka division (Package no-7)

Ref: Material Testing/PMC/20-21.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: Sri K B Alankar.

TEST RESULTS

Table 1: Properties of DBM (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Dense Bituminous Macadam, Grade-2 as per M.o.R.T&H (IV Revision)-2001 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1230**	900
2	Marshall Flow at 60°C, mm.	**3.25**	2.0 - 4.0

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NO: YEL/PMC/PKG 7/ M30 Road

Date: 25/03/2021

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work :- Development of roads and drains at Maruthinagara 4th main and cross roads Basaveshwaranagara and Shivanahalli surrounding areas in ward no:01of Yelahanka division (Package no-7)

Ref: Material Testing/PMC/20-21.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: Sri K B Alankar.

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm

Grade Of concrete: M30

Table1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strength N/mm2	Average Strength N/mm2
1	Basaveshwaranagara Cross Roads	18-03-2021	25-03-2021	8.24	7	475.00	21.11	20.70
2		"	"	8.36	"	469.00	20.84	
3		"	"	8.52	"	485.00	21.56	
4		"	"	8.44	"	436.00	19.38	
5		"	"	8.25	"	455.00	20.22	
6		"	"	8.63	"	475.00	21.11	

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NO: YEL/PMC/PKG 7/ M30 Road

Date: 15/04/2021

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work :- Development of roads and drains at Maruthinagara 4th main and cross roads Basaveshwaranagara and Shivanahalli surrounding areas in ward no:01of Yelahanka division (Package no-7)

Ref: Material Testing/PMC/20-21.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: Sri K B Alankar.

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm

Grade Of concrete: M30

Table1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strengt h N/mm2	Average Strength N/mm2
1	Shivanahalli Cross Roads	18-03-2021	15-04-2021	8.41	28	796.00	35.38	34.84
2		"	"	8.52	"	755.00	33.56	
3		"	"	8.65	"	748.00	33.24	
4		"	"	8.39	"	798.00	35.47	
5		"	"	8.21	"	830.00	36.89	
6		"	"	8.46	"	777.00	34.53	

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NO: YEL/PMC/PKG 8/ Raft

Date: 06/03/2021

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of work: "-Developments of roads and drains at Venkatala, Kenchenahalli, Nagenahalli, Harohalli village and Drilling of borewells and providing pipe line at SC/ST areas in ward no:01 and 02 of Yelahanka Division (Package no:08)".

Ref: Material Testing/PMC/20-21

Report submitted to: Assistant Executive Engineer, Yelahanka Sub Division, BBMP Bangalore.

Name of Agency/ contractor: Sri. K Venkata Raju.

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm

Grade Of concrete: **M20**

Table1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strengt h N/mm2	Average Strength N/mm2
1	Basaveshwaranagara Drain	06-02-2021	06-03-2021	8.12	28	541.00	24.04	23.93
2		"	"	8.42	"	563.00	25.02	
3		"	"	8.28	"	524.00	23.29	
4		"	"	8.34	"	534.00	23.73	
5		"	"	8.22	"	564.00	25.07	
6		"	"	8.63	"	505.00	22.44	

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NO: YEL/PMC/PKG 7/ Raft

Date: 10/03/2021

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work :- Development of roads and drains at Maruthinagara 4th main and cross roads Basaveshwaranagara and Shivanahalli surrounding areas in ward no:01of Yelahanka division (Package no-7)

Ref: Material Testing/PMC/20-21.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: Sri K B Alankar.

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm

Grade Of concrete: **M20**

Table1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strength N/mm2	Average Strength N/mm2
1	Shivanahalli Raft	10-02-2021	10-03-2021	8.41	28	503.00	22.36	22.16
2		"	"	8.20	"	485.00	21.56	
3		"	"	8.36	"	476.00	21.16	
4		"	"	8.32	"	531.00	23.60	
5		"	"	8.55	"	499.00	22.18	
6		"	"	8.35	"	497.00	22.09	

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#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL/PMC/PKG 7/Side Walls

Date: 19/02/2021

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work :- Development of roads and drains at Maruthinagara 4th main and cross roads Basaveshwaranagara and Shivanahalli surrounding areas in ward no:01of Yelahanka division (Package no-7)

Ref: Material Testing/PMC/20-21.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: Sri K B Alankar.

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm

Grade Of concrete: **M20**

Table1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strengt h N/mm2	Average Strength N/mm2
1	Shivanahalli Side Walls	12-02-2021	19-02-2021	8.36	7	425.00	18.89	16.84
2		"	"	8.24	"	359.00	15.96	
3		"	"	8.25	"	357.00	15.87	
4		"	"	8.29	"	399.00	17.73	
5		"	"	8.24	"	356.00	15.82	
6		"	"	8.27	"	378.00	16.80	

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NO: YEL/PMC/PKG 7/ Raft

Date: 12/03/2021

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work :- Development of roads and drains at Maruthinagara 4th main and cross roads Basaveshwaranagara and Shivanahalli surrounding areas in ward no:01of Yelahanka division (Package no-7)

Ref: Material Testing/PMC/20-21.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: Sri K B Alankar.

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm

Grade Of concrete: **M20**

Table1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strengt h N/mm2	Average Strength N/mm2
1	Maruthi Nagara Raft	05-03-2021	12-03-2021	8.61	7	425.00	18.89	17.36
2		"	"	8.34	"	416.00	18.49	
3		"	"	8.51	"	375.00	16.67	
4		"	"	8.56	"	367.00	16.31	
5		"	"	8.41	"	381.00	16.93	
6		"	"	8.23	"	379.00	16.84	

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NO: YEL/PMC/PKG 7/ Side Walls

Date: 03/04/2021

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work :- Development of roads and drains at Maruthinagara 4th main and cross roads Basaveshwaranagara and Shivanahalli surrounding areas in ward no:01of Yelahanka division (Package no-7)

Ref: Material Testing/PMC/20-21.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: Sri K B Alankar.

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm

Grade Of concrete: **M20**

Table1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strengt h N/mm2	Average Strength N/mm2
1	Nagenahalli and Kenchenahalli Village	06-03-2021	03-04-2021	8.00	28	533.00	23.69	22.94
2		"	"	8.23	"	514.00	22 84	
3		"	"	8.35	"	529.00	23 51	
4		"	"	8 17	"	548 00	24 36	
5		"	"	8.59	"	494.00	21 96	
6		"	"	8.65	"	479.00	21 29	

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